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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/070,712	03/05/2002	Yoshio Tsukahara	OT-4607	2569	
7590 07/12/2004		EXAMINER			
Randy G Henley Otis Elevator Company			CRAWFOR	CRAWFORD, GENE O	
Intellectual Property Department			ART UNIT	PAPER NUMBER	
Ten Farm Springs Farmington, CT 06032			3651		
•			DATE MAILED: 07/12/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summany	10/070,712	TSUKAHARA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Gene O. Crawford	3651					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 26 Ma	Responsive to communication(s) filed on <u>26 May 2004</u> .						
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>1-6</u> is/are pending in the application.	I)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1</u> is/are allowed.	Claim(s) <u>2-4</u> is/are rejected.						
6)⊠ Claim(s) <u>2-4</u> is/are rejected.							
·	Claim(s) <u>5 and 6</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
)) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)					
Paper No(s)/Mail Date 6) Other:							

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#### **DETAILED ACTION**

## Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer in view of Ahls et al.

The escalator step disclosed by Fischer includes a tread 2 and a riser 1 extending downward from a rear edge of the step, the step including a surface 3, 40 of a fixed length and prescribed width mounted to the rear edge of the step, and the surface 3, 40 is comprised of a synthetic resin (i.e. rigid, slightly resilient plastic) formed with cleats conforming to the step tread (column 5, lines 53-55). Fischer does not disclose that the surface is a non-slip or made of a material that is non-slip such as rubber, which is notoriously well known for its high coefficient of friction properties. However, Ahls et al. discloses the broad teaching of providing a non-slip surface made of rubber to the edges of a step including the rear edge. It would have been obvious to one of ordinary skill in the art to provide the synthetic resin surface of the step disclosed by Fischer be

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made of rubber such requiring the mere choice of an art recognized material used for making surfaces that can be attached to the rear edge of an escalator step as taught by Ahls et al.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer in view of Ahls et al. as applied to claims 2 and 3 above, and further in view of Saito et al.

With regard to claim 4, Fischer includes all the claimed features but does not disclose a serrated irregular pad formed on the top surface of the cleats of the non-slip surface. However, Saito et al. discloses the broad teaching of providing cleats for the surfaces of an escalator step with serrated surfaces in the longitudinal or transverse direction of the cleat top surface (figures 2, 3, 7A, 8, 9). It would have been obvious to one of ordinary skill in the art to provide the top surfaces of the cleats of the anti-slip surface of Fischer in view of Ahls et al. include serrated surfaces to facilitate an anti-slip surface and provide strengthening and wear resistance to the top portion of the cleats as taught by Saito et al.

## Allowable Subject Matter

- 5. Claim 1 is allowed.
- 6. Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: an escalator step including the unique features of 'cleats of the non-slip surface

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being formed to be at a height higher than the tread' and/or 'the non-slip surface being fastened to a reinforcing plate that is fixed within a cleat cutout part of the step' in combination with the rest of the claim language is not taught or fairly suggested by the prior art.

8. The following is an examiner's statement of reasons for allowance: an escalator step having a riser including the unique features of 'the riser having a toothed surface made of cleats with one or more grooves formed in longitudinal direction on the surface of each of the cleats' in combination with the rest of the claim language is not taught or fairly suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

ေရွာက္သည့္မွာမွာ ကိုညြန္နဲ႔ မိုက်မ်ား လူကိုသည္။ မိန္နာကို လည္းသည္။ လည္းသည္ကို အေတြကို မိုက်မ်ား လည္းမေတြက

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gene O. Crawford whose telephone number is 703/305-9733. The examiner can normally be reached on Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Ellis can be reached on 703/308-1113. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Øere O. Crawford Primary Examiner Art Unit 3651

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